

Integrated Safety and Security Management (ISSM)

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DISCLAIMER

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John Blair Woods biography

- Currently Manager, Program Analysis and Evaluation, Safeguards, Security & Emergency Services at Y-12 National Security Complex
- B.A. in Foreign Service and International Politics and an M.A. in International Relations from The Pennsylvania State University
- Commissioned a Second Lieutenant of Armor in the Regular Army in June 1971 as a distinguished military graduate
- Retired from active duty in July 1991
- Began a second career at Y-12 as a security specialist and has since served in varied managerial positions

Why ISSM at Y-12?

- Safety and security events and incidents
- ISSM = Integrated Safety Management (ISM) core functions and principles
- New security technology deployment after 9/11
- Emphasis on safety and security together
- B&W Y-12 senior management objective for effective performance
- Major initiatives began in 2005

Senior management commitment (2005–present)

- Structured and disciplined process
- B&W Y-12 senior management key to reach milestone
 - provided direction and support
- Six Sigma team with senior experienced team participation
 - senior management champion
 - Engineering
 - safety disciplines
 - Production
 - Safeguards and Security (S&S)

Approach

- Establish common understanding and communication among team
- Identify
 - existing safety and security commonalities
 - program and process gaps
 - required integrated change controls
- Develop and issue implementation plan/milestones
 - site
 - S&S
 - education and training

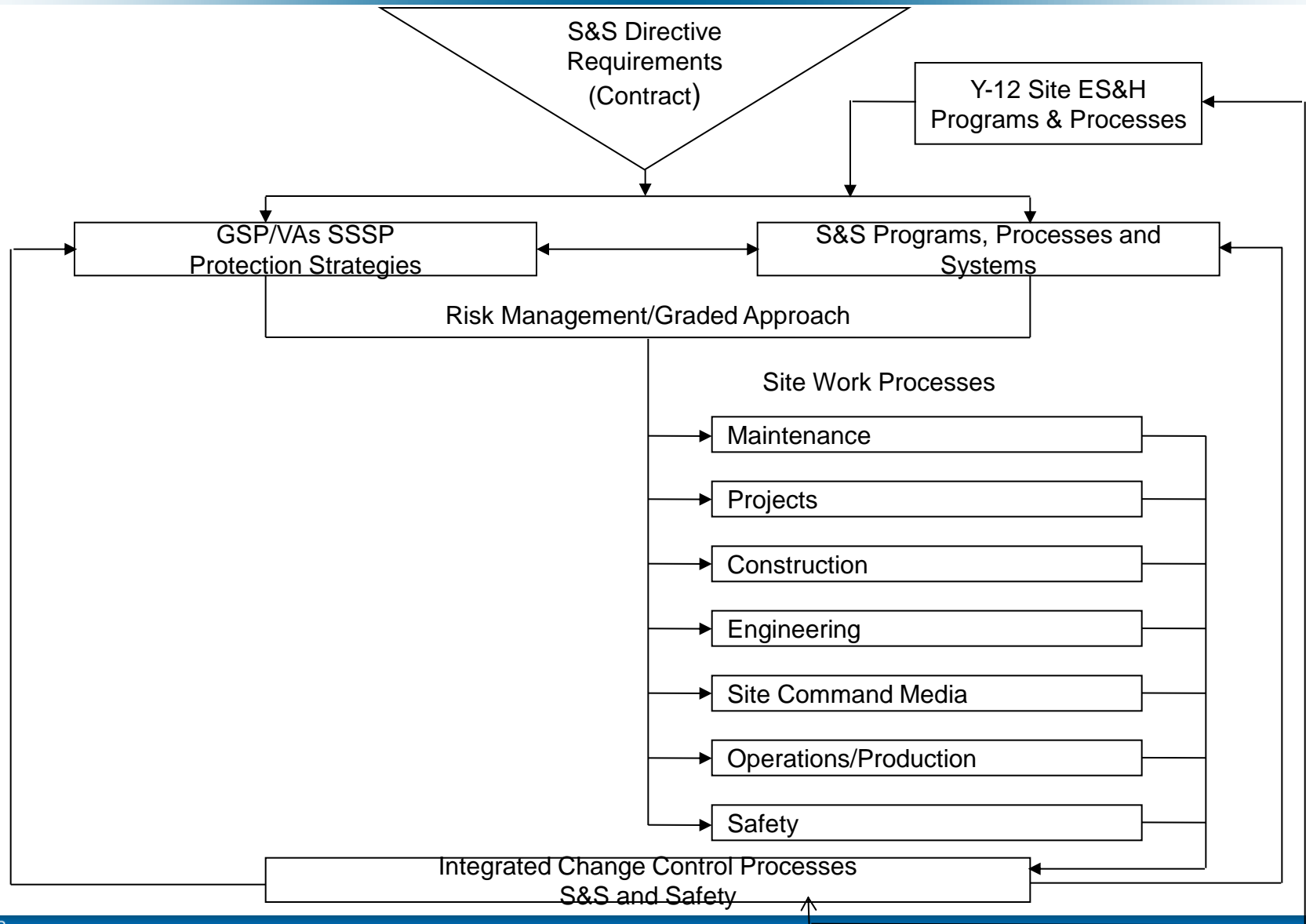
Management mechanisms/communication

- S&S and Production team to work issues
- Site- and facility-specific operational safety boards (OSBs)
- S&S Integrated Management Planning and Prioritization Team (IMPPT)
- S&S Operations Center (SSOC)
- Security area owners

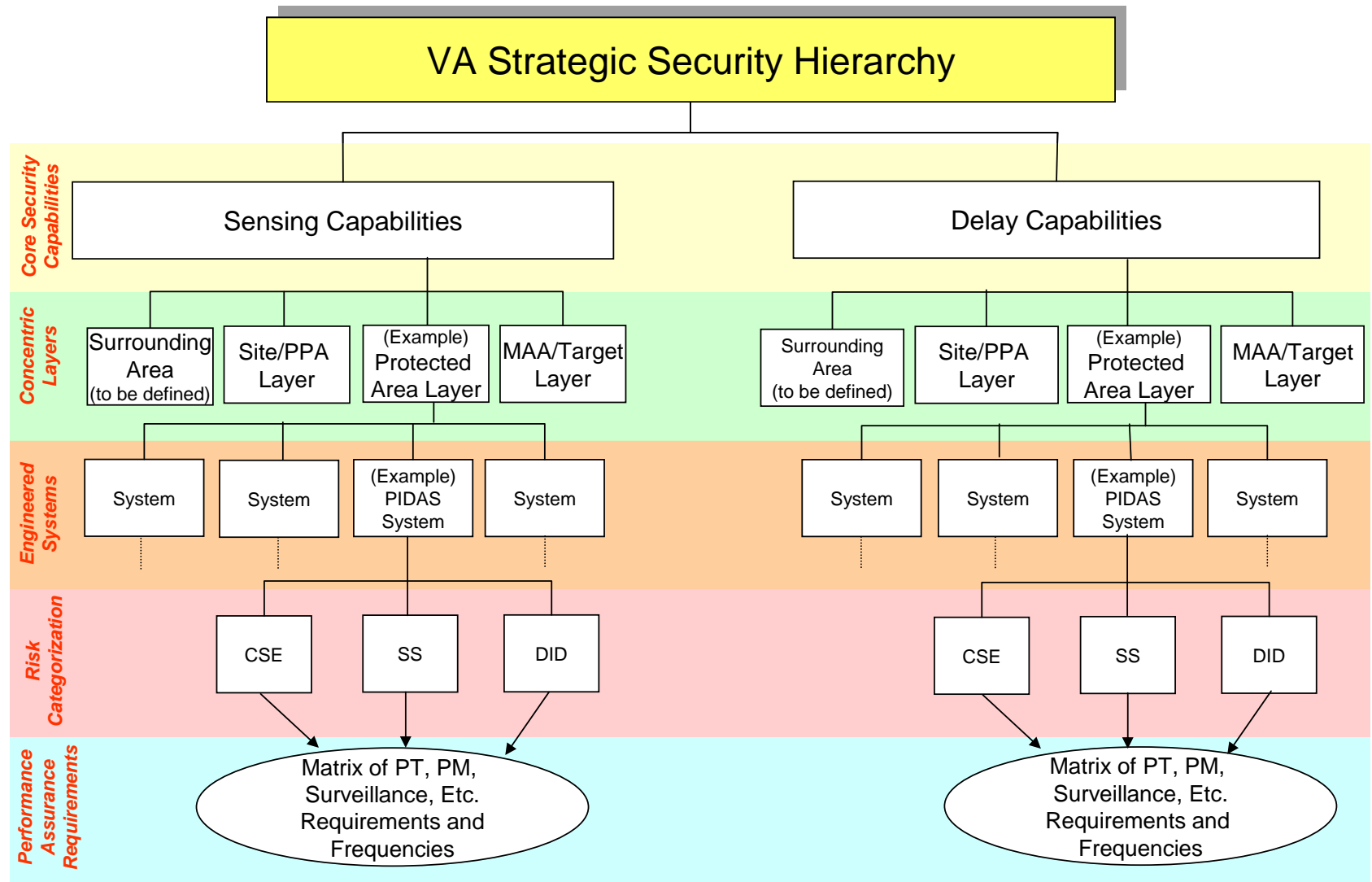
Safety and security commonalities

	SAFETY	SECURITY
DESIGN BASIS	postulated accident scenarios	Graded Security Protection (GSP) policy
ANALYSIS	accident analyses	vulnerability assessments and options analyses
REQUIREMENTS DOCUMENTATION & OUTPUTS	<ul style="list-style-type: none"> • site-wide SAR <ul style="list-style-type: none"> – plant-wide safety SSCs & features • facility BIOs or SARs <ul style="list-style-type: none"> – facility-specific safety class & safety-significant systems, etc. • technical safety requirements (TSRs) 	<ul style="list-style-type: none"> • SSSP <ul style="list-style-type: none"> – credited plant-wide systems and equipment • security plans <ul style="list-style-type: none"> – credited facility-specific security design features • predetermined compensatory measures
CHANGE IMPACT EVALUATIONS	<u>USQD process</u> <ul style="list-style-type: none"> ▪ integration of screenings and USQDs with “trigger” work control procedures. ▪ NNSA approval thresholds 	<u>security checklist for certified security areas</u> <ul style="list-style-type: none"> ▪ integration of screenings with “trigger” work control procedures ▪ NNSA approval thresholds
ANNUAL UPDATES	DCNs used to incorporate approved changes for annual updates	DCNs used to incorporate approved changes for annual updates

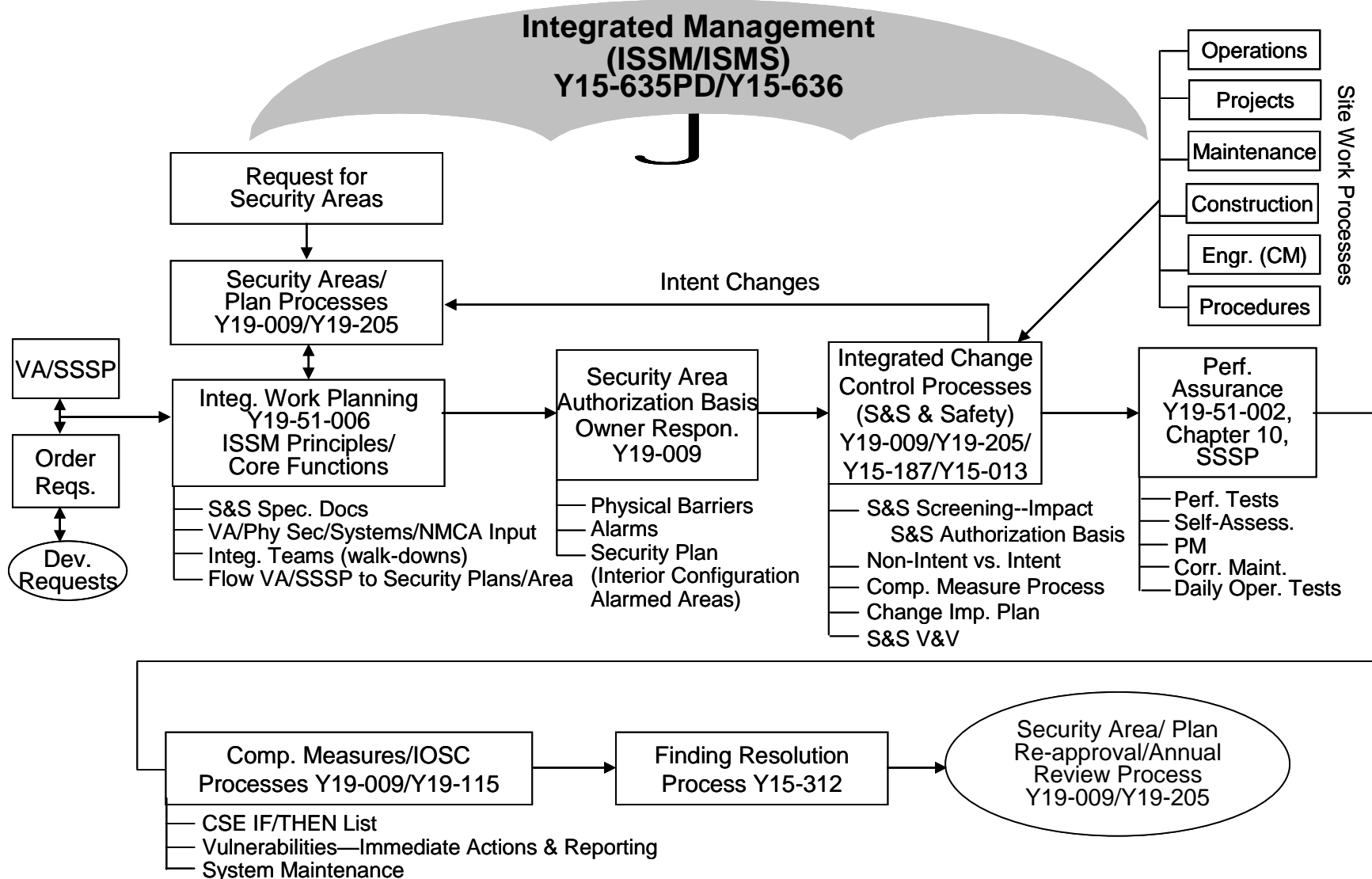
ISSM/ISMS integrated model



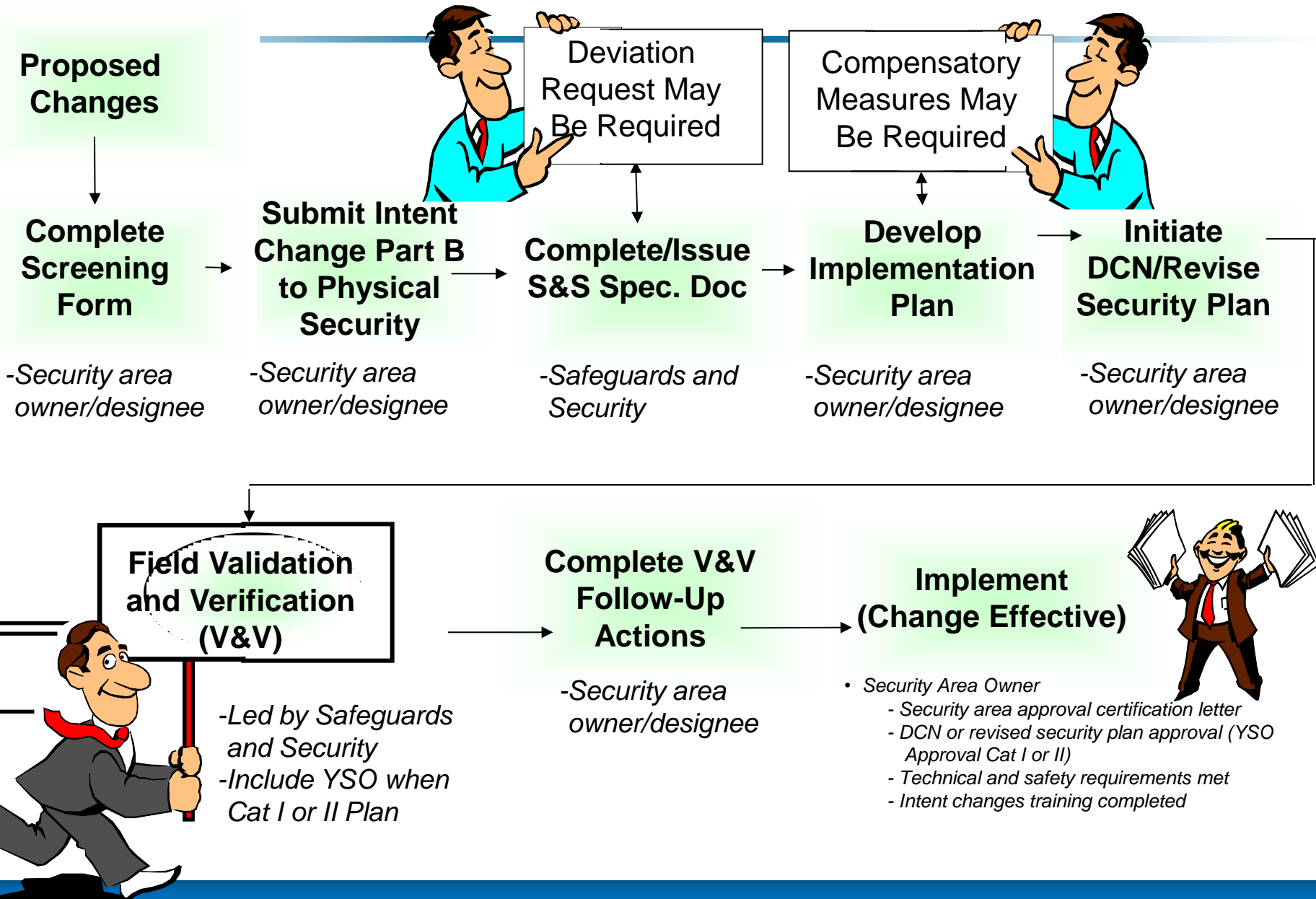
VA strategic security hierarchy



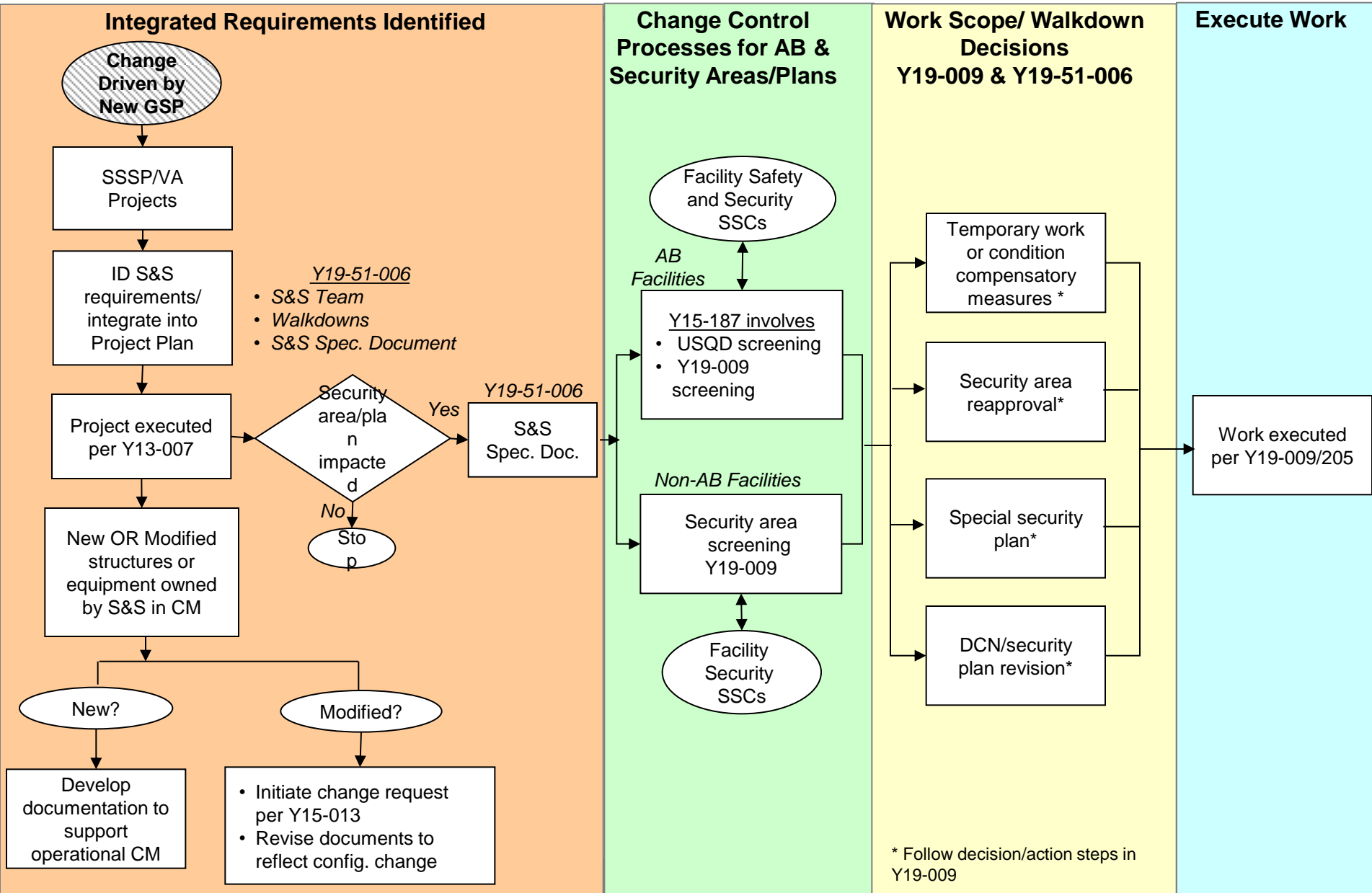
Y-12 SS&ES Performance Assurance



Major Change Control Process Steps

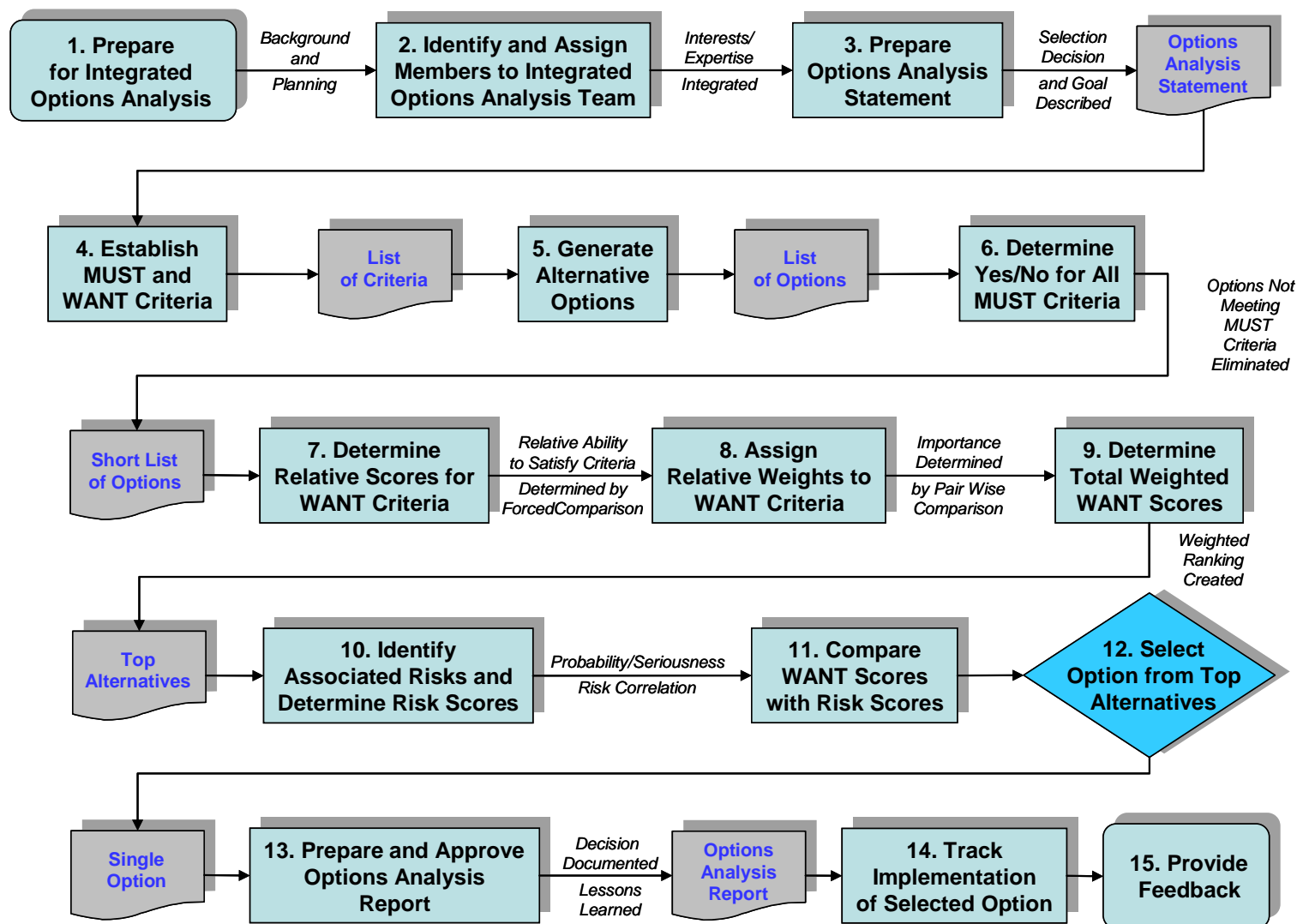


Design Basis Threat CM/Security Areas/Security Plans Process Integration

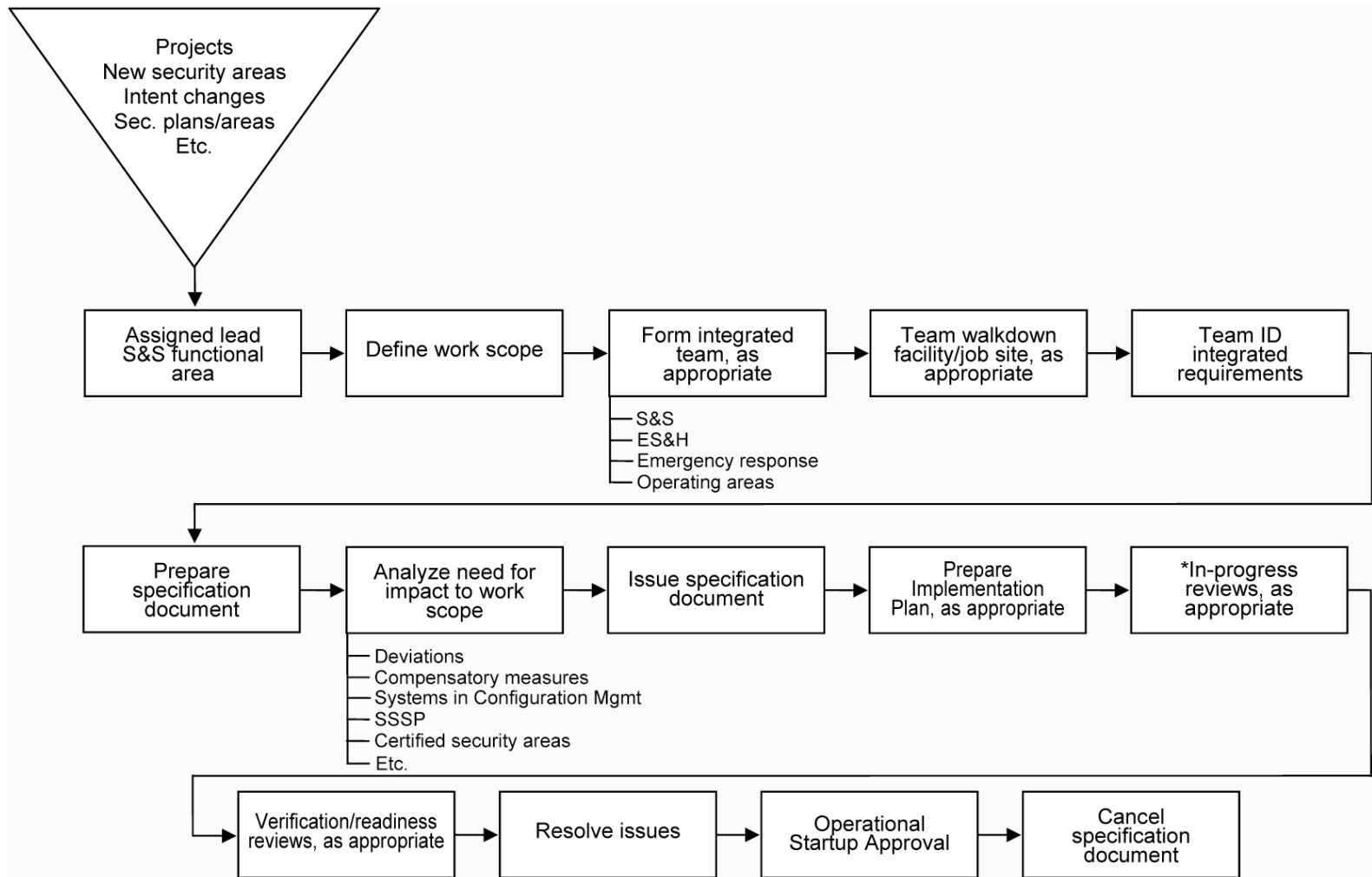


Backup slides

Integrated options analysis flow diagram



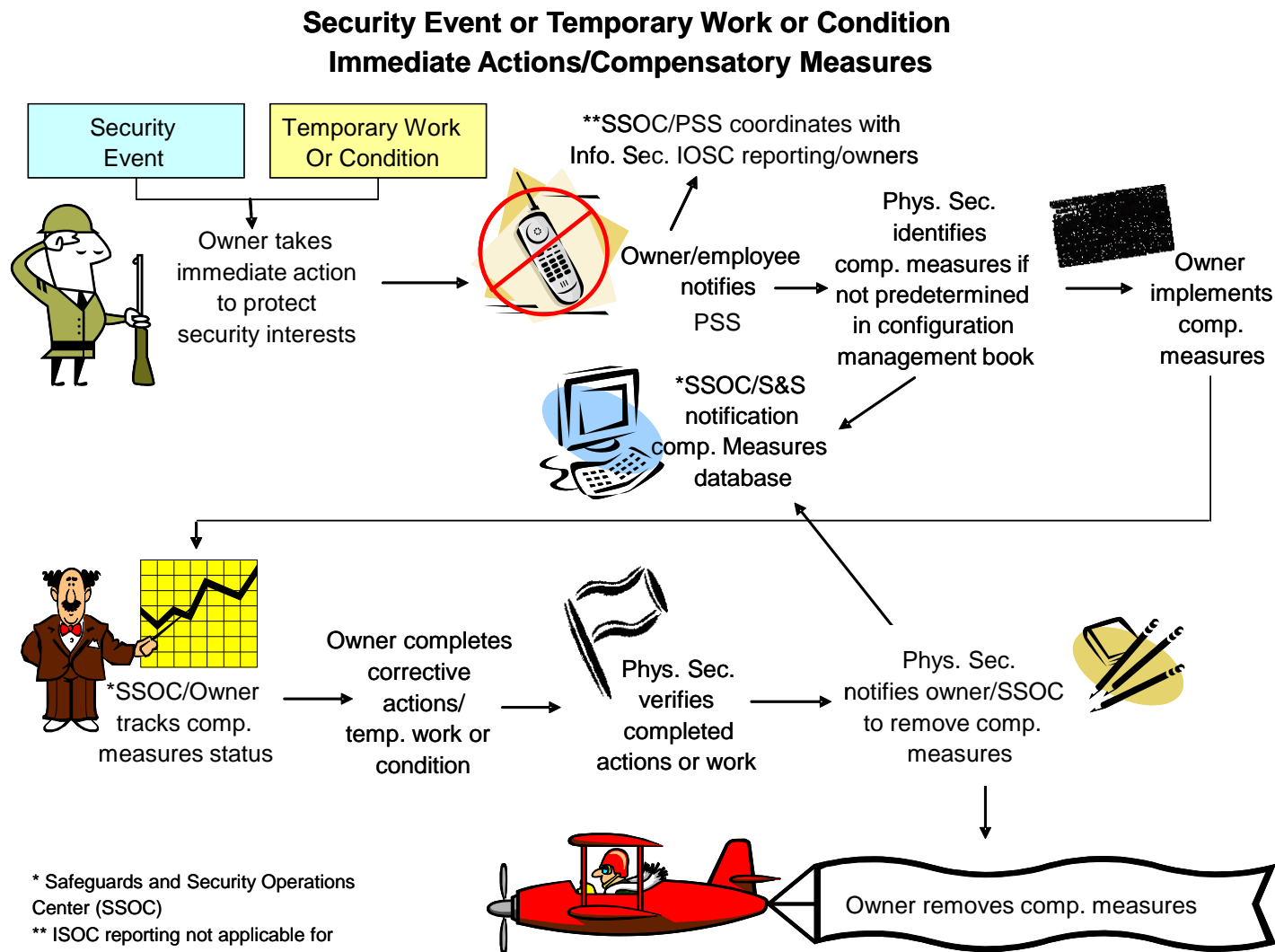
S&S work planning (specifications document)



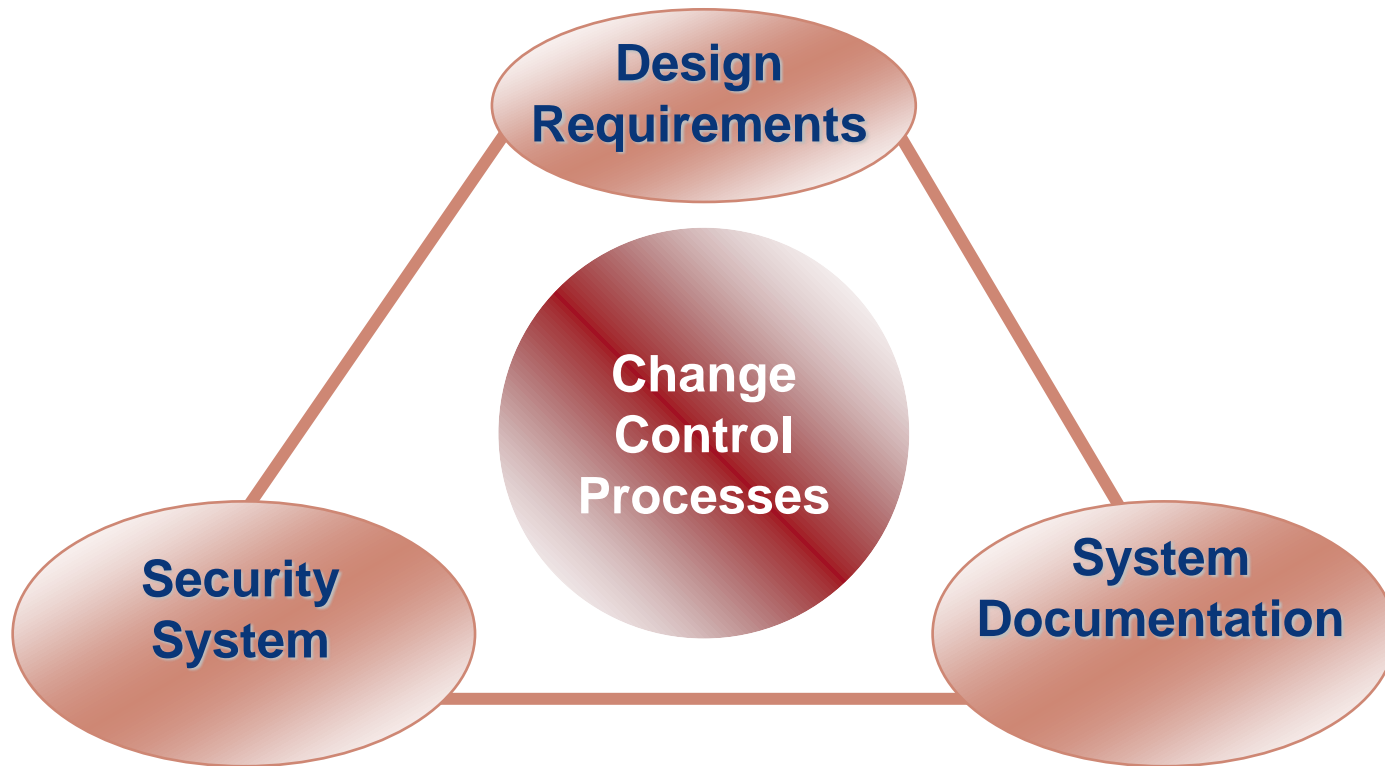
*Cancel specification document and repeat appropriate steps of process if a specification document requires an update before its cancellation.

7/21/2008

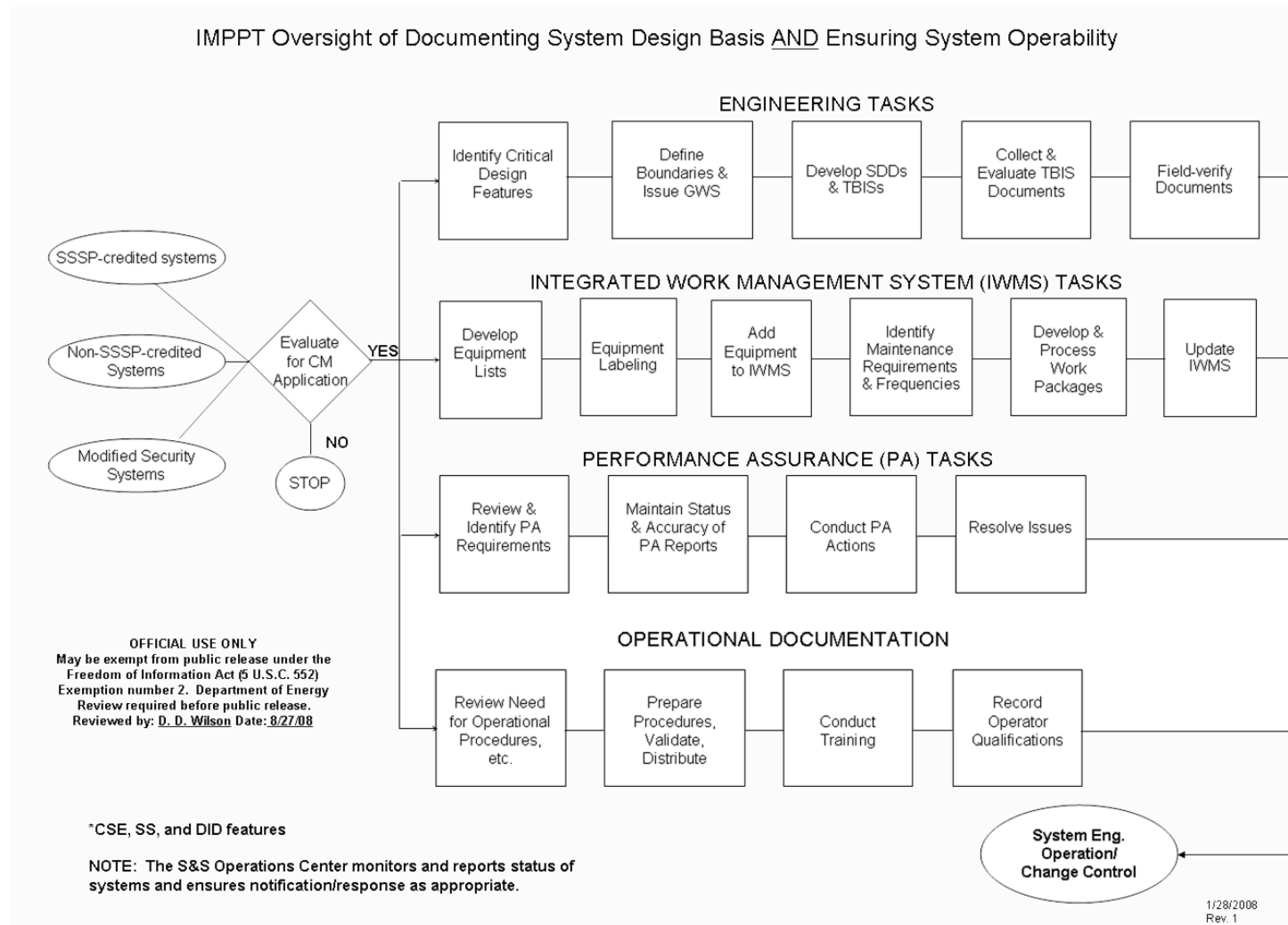
Immediate actions/compensatory measures



Configuration management goals



IMPPT oversight of system design basis



Security project flow diagram

